Honeywell Docket No. H0002233.33717 US - 4018

Buchalter Docket No.: H9925-2905

N THE CLAIMS

(Previously Presented) A plating system comprising:

- an elongated upper channel formed by two upper shields and an elongated lower channel formed by two lower shields, wherein each channel is separated by a gap between the upper and lower shields, wherein the gap is less than the height of a part being plated, and wherein the shortest distance from the part being plated to a channel wall is less than the shortest distance between the channel wall and an anode; and
- a plating solution horizontal sparger comprising a series of inlets oriented to direct any plating solution flowing through the inlets directly into one and towards another of the upper and lower channels.
- (Original) The system of claim 1 further comprising:

an anode; and

- a substantially planar cathode comprising a first surface conductive surface, a second conductive surface, and a perimeter edge, the first conductive surface and second conductive surfaces being substantially parallel to each other arid positioned on opposite sides of the cathode; wherein the sparger is positioned at least as close to the perimeter edge of the cathode as to either of the first or second conducting surfaces.
- (Original) The system of claim 2 wherein the sparger directs any plating solution flowing through the inlets towards the cathode in a plane substantially coplanar with the cathode.

Claims 4-7: Canceled.

- (Original) The system of claim 1 wherein each of the upper channel and lower channel have a width less than or equal to one inch.
- 9. (Previously Presented) The system of claim 1 wherein the horizontal sparger

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directs any plating solution flowing through the inlets into the lower channel and towards the upper channel.

- (Original) The system of claim 1 wherein each of the upper channel and lower channel have a width less than or equal to 0.5 inches.
- 11. (Previously Presented) The system of claim 1 wherein each of the upper channel and lower channel have a width less than or equal to 0.5 inches, and further comprising a plurality of part holding clamps electrically coupled to a power source and positioned within the upper channel or the lower channel.
- 12. (Original) The system of claim 1 further comprising a plurality of anodes positioned outside and along the length of the upper and lower channels.
- 13. (Original) The system of claim 1 wherein the upper channel and lower channel are separated by a distance and at least one of the upper channel and lower channel are adapted to be moved to vary the distance.

Claims 14-18: Canceled.

19. (Previously Presented) The system of claim 1, wherein the gap is 20 percent of the height of the part being plated.